

500.39945PX1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Y. KOKURYO, et al

Serial No.: 09/822,272

Filed: April 2, 2001

For: AUTOMATIC EQUALIZATION CIRCUIT AND RECEIVER CIRCUIT
USING THE SAME

Group: 2634

Examiner: L. Williams

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SUBMISSION OF SUBSTITUTE SPECIFICATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450


September 23, 2004

Sir:

Attached please find a substitute specification for the above-referenced application. Please note that the attached substitute specification does not contain any new matter. Also attached is a marked-up copy of the specification as originally filed.

It is respectfully requested that any shortage in the fees be charged to the Deposit Account of Antonelli, Terry, Stout & Kraus, LLP, Account No. 01-2135 (Case No. 500.39945PX1).

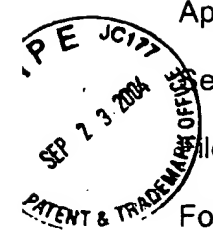
Respectfully submitted,



Carl I. Brundidge
Registration Number: 29,621
ANTONELLI, TERRY, STOUT & KRAUS, LLP

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(703) 312-6600

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SUBSTITUTE SPECIFICATIONAUTOMATIC EQUALIZATION CIRCUIT AND
RECEIVER CIRCUIT USING THE SAME

CROSS-REFERENCE TO RELATED APPLICATION

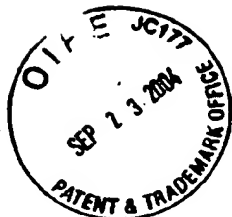
This is a continuation-in-part of United States Application Serial No. 09/819,709, filed on March 29, 2001 in the names of Kokuryo Yoshiro, Nobuo Tsukamoto and Hiroyuki Hamazumi, entitled "AUTOMATIC EQUALIZATION CIRCUIT AND RECEIVER CIRCUIT USING THE SAME", assigned to the same assignee of the present application and claiming the priority right based on Japanese patent application No. 2000-94670 filed on March 30, 2000, the disclosures of which is hereby incorporated by reference herein.

BACKGROUND OF THE INVENTION

The present invention relates to an equalization circuit to be used in a demodulation circuit for demodulating a multilevel digital modulation signal, and more particularly to an automatic equalization circuit of the type that equalization characteristics, i.e., frequency characteristics, are automatically set by using a training signal, and to a receiver circuit (demodulation circuit) using such an automatic equalization circuit.

It is desired in every and each transmission system including a multilevel digital transmission system that waveform distortions, echoes and the like

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